Second Compendium

of

State Research Activities

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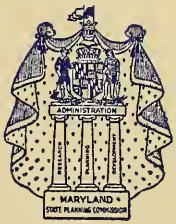

Maryland State Planning Commission

May 1949

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Second Compendium

of

State Research Activities

Maryland State Planning Commission

May 1949

MARYLAND STATE PLANNING COMMISSION
PUBLICATION No. 59

For sale by the Maryland State Planning Commission
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HENRY P. IRR
Chairman

I. ALVIN PASAREW
Director

May 10, 1949.

HONORABLE WM. PRESTON LANE, JR.,
Governor of Maryland
Annapolis, Maryland.

Dear Governor Lane:

I am pleased to transmit herewith for your information the "Second Compendium of State Research Activities," prepared by the State Planning Commission with the cooperation of 92 State agencies and institutions.

This report supplements the first "Compendium of State Research Activities," issued by the Commission in May 1948. Because of the wide public interest and demonstrated value of the Inventory taken last year, the Commission undertook to sponsor a Second Inventory of State Research Activities this year.

In response to the Commission's Inventory, conducted in accordance with Chapter 596 of the Acts of 1947, 28 State divisions reported a total of 194 current research projects. Of this number, State agencies account for 145 studies and State academic institutions for 49. Since the University of Maryland declined to participate in this year's survey, the listings for the State's institutions of higher education are necessarily incomplete.

On the basis of the reports submitted by the State agencies, it was determined that the State's major research efforts are currently being devoted to the fields of Conservation and Water Resources and of Health and Public Welfare. It is noteworthy that in the latter category 26 projects are concerned specifically with problems of the mentally ill.

Your Commission gratefully acknowledges the interest and encouragement you have shown in the preparation of this report and also the cooperation of the 92 State agencies who made it possible.

Very truly yours,

Henry P. Irr

Chairman

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FOREWORD

In accordance with Chapter 596 of the Acts of 1947, the Maryland State Planning Commission initiated last year an Inventory of State Research Activities. In response to the survey, a total of 508 research projects being conducted by State agencies in behalf of the State and/or its political subdivisions was reported by 30 agencies. On the basis of the wide public interest and demonstrated value of the first survey, the Commission sponsored a Second Inventory of State Research Activities in January of this year. The results of this Inventory are presented herein.

The SECOND COMPENDIUM OF STATE RESEARCH ACTIVITIES follows substantially the format and presentation of the original COMPENDIUM published in May 1948. Part I reports 145 research projects which are currently being conducted, or have recently been completed, by 26 State agencies. The projects are grouped according to subject matter under 11 different headings. One category, Housing, has been dropped this year, and two have been added, namely, Agricultural Economics and Marketing and Recreation. Part II reports current research activities at the State's academic institutions. A total of 49 projects is listed for Morgan State College and St. Mary's Seminary—Junior College. It has not been possible to include a listing of the research projects of the University of Maryland, who declined to participate in the Second Inventory of State Research Activities.

The accompanying tables show the distribution of the 194 research projects reported. For the State agencies, Table 1 indicates that 33.1% of research is devoted to problems in Conservation and Water Resources. This subject continues to head the list of State research activities. Health and Public Welfare, which accounts for 26.9% of the projects reported, showed the greatest increase in the number of new studies undertaken since last year. It is noteworthy that 26 of the projects in this category are devoted to the problems of the mentally ill. Third in the number of current research projects, Employment and Economic Trends, recorded the second largest increase in studies for the year. The total number of research projects being conducted by State agencies rose from 112 in 1948 to 145 this year.

Table 2 lists by department the 48 research projects reported by Morgan State College. The Departments of English and of History and Political Science account for the greatest number of studies, with Biology and Sociology holding second place. It is regrettable that a report of all research projects at the State's academic institutions cannot be given in this COMPENDIUM. While the University of Maryland did not submit a report this year, its research activities of last year showed a major concentration in the Colleges of Agriculture and Medicine.

New studies requested by the 1949 Session of the General Assembly are compiled in Appendix A. The 92 State agencies who participated in the Second Inventory of State Research Activities are listed in Appendix B. To all these agencies the State Planning Commission offers grateful appreciation for their wholehearted cooperation and interest during the taking of the Inventory.

TABLE 1. DISTRIBUTION OF STATE RESEARCH ACTIVITIES (AGENCIES)

Subject	Number of Projects	Per Cent[1]
Agricultural Economics and Marketing	2	1.4
Archives	2	1.4
Conservation and Water Resources	48	33.1
Education	11	7.6
Employment and Economic Trends	17	11.7
Government Finances	3	2.1
Health and Public Welfare	39	26.9
Legislation and Law Enforcement	4	2.8
Planning and Public Works	11	7.6
Recreation	5	3.4
Transportation and Traffic Control	3	2.1
TOTALS	145	100.0

[1] Figures will not necessarily total 100% because of rounding.

TABLE 2. DISTRIBUTION OF STATE RESEARCH ACTIVITIES (MORGAN STATE COLLEGE)[1]

Department	Number of Projects	Per Cent[2]
Biology	4	8.3
Chemistry	3	6.3
Economics	2	4.2
Education	4	8.3
English	10	20.8
History and Political Science	10	20.8
Mathematics	2	4.2
Music	3	6.3
Philosophy and Psychology	3	6.3
Romance Languages	3	6.3
Sociology	4	8.3
TOTALS	48	100.0

[1] St. Mary's Seminary—Junior College, the only other State academic institution reporting research activities, has one project under way (See Part II).
[2] Figures will not necessarily total 100% because of rounding.

PART I. STATE RESEARCH ACTIVITIES (AGENCIES)

AGRICULTURAL ECONOMICS AND MARKETING

Maryland State Apple Commission

1. Consumer survey of apply buying and using preferences, conducted in three representative cities of eastern United States. Under direction of Appalachian Apple Service, Inc., Martinsburg, West Virginia, in cooperation with: Maryland State Apple Commission, Harold K. Smith, Secretary; Virginia Apple Commission; and West Virginia Apple Commission. Completed January 5, 1949. Published in Appalachian Apple Service *Bulletin No. 221.* Special letter to apple trade.

2. Determination of practical merchandising methods for increasing consumer purchase of cooking apples. Conducted in several cities, using groups of three or more stores in each. Under direction of Appalachian Apple Service, Inc., Martinsburg, West Virginia, in cooperation with: Maryland State Apple Commission, Harold K. Smith, Secretary; Virginia Apple Commission; and West Virginia Apple Commission. Date of completion, March 30, 1949. To be published in Appalachian Apple Service *Bulletin.* Special letter to apple trade.

ARCHIVES

Land Office of Maryland

3. Collection and microfilming of plats of subdivisions throughout the State. Under direction of Arthur Trader, Administrative Assistant. Date of completion, 1959-1961. Published in parts in *Biennial Report of the Commissioner of the Land Office.* Collection on file at Land Office of Maryland.

Maryland Historical Society. Maryland War Records Division

4. Compilation of historical records relative to Maryland contributions to World War II and the impact of the War on the State: broad scope, including individual military service records, war histories of military installations within the State, of industries with war contracts, and of civilian defense organizations. Under direction of Harold R. Manakee, Director. Date of completion undetermined. To be published and transmitted to the Board of Public Works. (Note: Volume on military phases of Maryland in World War II is ready for printing; volume on economic phases of Maryland in World War II is in progress.)

CONSERVATION AND WATER RESOURCES

Board of Natural Resources. Department of Geology, Mines and Water Resources

5. Ground water resources of Salisbury area for public water supply of Salisbury. Under direction of R. R. Bennett and R. R. Meyer. Field work completed June 30, 1948; final report in preparation. To be published and transmitted to the United States Geological Survey.

6. Revision of county topographic maps. Under direction of Dr. Joseph T. Singewald, Jr., Director. Date of completion, June 30, 1949 or later. To be published.

7. Survey of area lost to Maryland through shore-front erosion in last 100 years. Under direction of Turbit H. Slaughter. Date of completion, June 30, 1949. To be published.

8. Inventory of ground water resources of Maryland. Under direction of R. R. Bennett. Date of completion uncertain, long-term project. To be published, as areas are completed, and transmitted to the United States Geological Survey.

9. Inventory of surface waters of Maryland through maintenance of stream-gaging stations. Under direction of V. R. Bennion. Continuous study. Stream flows published annually. Data transmitted to the United States Geological Survey. No publication plans.

10. Report on geology and other natural resources of Washington County. Under direction of Dr. Ernst Cloos *et al.* Date of completion, December 1949. To be published.

11. Geologic map of Montgomery County. Under direction of Dr. Ernst Cloos. Date of completion, June 30, 1949. To be published.

12. Fire clay resources of Western Maryland. Under direction of Dr. Karl Waage and Dr. T. W. Amsden. Date of completion, June 30, 1949. To be published and transmitted to the United States Geological Survey.

13. Geologic map of Prince George's County. Remapping of the geology of the County on the revised topographic base. Under direction of Dr. C. Wythe Cooke, United States Geological Survey. Date of completion, probably 1949. To be published.

14. Geologic map of Garrett County. Remapping of the geology of the County on the new topographic map. Under direction of Dr. T. W. Amsden. Date of completion uncertain. To be published.

Board of Natural Resources. Department of Research and Education
Dr. R. V. Truitt, Director, in charge of research

15. Commercial fish hatchery operation; production of shad and yellow perch fry for release in various waters in the State. Involves evaluation of efficiency of hatchery procedures in rehabilitation of fisheries. Annual study. To be published.

16. Composition of the commercial catch of fish. A study to determine what year-classes are entering the catch and in what proportion, which with other pertinent facts will help evaluate the success of the Maryland Management Plan. Annual study. To be published.

17. River temperatures. A study of water temperature fluctuations at the spawning ground of shad during and after spawning season; includes comparison of two rivers. Date of completion, 1949. To be published.

18. Artificial stimulation of hard crabs and early peeler crabs to moult; trial of several experimental techniques which have induced moulting in other crustacea. Date of completion, 1949. To be published.

19. Migrations of the blue crab; study, through tagging, of the interstate and intrastate movements of crabs. Date of completion, 1949. To be published.

20. Study of small crab population at Solomons Island. Determination of (1) growth rate of juvenile crabs; (2) dispersion rate of juvenile crabs; and (3) migrations of juvenile crabs. Date of completion, December 1949. To be published.

21. Survey of mud crabs in Chesapeake Bay, including determination of species, distribution, and some data on life histories. Date of completion, 1949. To be published.

22. Statistical survey of crabs, including study of past fluctuations and inventory of present resources. Continuing study. To be published.

23. Increasing the efficiency of the crab pot; development of semi-artificial bait for pots and of a self-culling pot. Date of completion, 1949. To be published.

24. Fluctuations in the supply of blue crabs and their causes: quantitative measurement of the number of crabs produced each year and study of the factors which control the size of the population. Continuing study. To be published at intervals.

25. Qualitative sampling of crab catch. Determination of factors affecting population size. Continuing study, 10-year program. To be published.

26. Winter survey of crab population of Rappahannock River, in cooperation with Crab Committee of the Atlantic States Marine Fisheries Commission. Study to determine the number of year-classes present in the Bay and tributaries; distribution of crabs of various sizes and perhaps ages in relation to depth, salinity, and bottom; and migratory movements of mature and immature crabs. Date of completion, probably 1949. To be transmitted to the Atlantic States Marine Fisheries Commission. Publication plans to be decided.

27. Preparation of annotated bibliography on the genus *Callinectes* (crab) and collection of all known references. Date of completion undetermined. To be published.

28. Oyster investigations dealing with (a) parasites, (b) predators, (c) bar composition, (d) oyster condition, (e) larval distribution, and (f) environment factors. Continuing study, annual summaries and occasional reports on completed phases. To be published.

29. Hydrographic study of the tidewaters in the Solomons Island region of the Chesapeake Bay. Determination of the effect of physical and chemical variations upon the organisms living therein. Date of completion undetermined. To be published.

30. Comparative growth rates and mortality of seed oysters obtained from diverse geographical localities: (a) Pamlico Sound, (b) Chesapeake area, (c) Delaware Bay, (d) Mullica River, New Jersey, (e) Long Island Sound, which were planted under the same conditions as at Solomons Island. Date of completion, 1950. To be published.

31. Comparison of survival and growth rates of seed oysters from different State seed areas, which were planted under the same environmental conditions. Major phases to be completed in 1952. Annual summaries to be published.

32. Growth and mortality of seed oysters from different sources, which were planted under the same environmental conditions as seed oysters in Chincoteague Bay. Continuing study, annual summaries and special reports to be published.

33. Attachment, survival, and rate of growth of oysters on shell, slag, and other cultch in (a) seed areas, (b) shelled producing bars, and (c) seed plantings. Continuing study, annual summaries and occasional reports on completed phases. To be published.

34. Comparative efficiency as cultch of oyster shells planted at different times of the year; plantings in the same locality to be made at intervals during the oyster shucking season, the spring, and early summer months. Date of completion, December 1950. To be published.

35. Rate of attachment of oyster spat and of fouling organisms to test shells exposed periodically in various State waters, with special emphasis on seed areas. Continuing study, annual summaries and occasional reports on completed phases. To be published.

36. Maryland fin-fish statistical program. Compilation of yearly data, since 1944, on Maryland's commercial fin-fish production. Based on daily catch reports by fishermen. Statistical breakdown by species, water areas, and gear will provide an accurate picture of the status of fisheries and a sound basis for judging the results of conservation practices. Continuing study. To be published.

37. State-wide inventory of the State's salt- and fresh-water fin fisheries, shell or oyster fishery, and crab fishery. Includes determination of (a) net fishing in tidewater by those not required to have a license; (b) sport fishing in tidewater; (c) sport fishing in fresh water, as well as distribution of forms which make up the catches. Continuing survey, with 3- to 5-year summaries. To be published.

38. State-wide inventory of forests: (a) collect and organize backlog of information on pertinent forest studies, forest exploitations, and present remedies; (b) by use of photo-classification methods, determine extent and types of forested areas and revise when areas are reflown; (c) by means of ground checks of systematically chosen area plots, determine annual forest growth, amount of merchantable and nonmerchantable timber, value of restocking, and value of certain areas to wildlife. Continuing survey, with 3- to 5-year summaries. To be published.

39. State-wide inventory of the game birds and mammals of the State to obtain the following: (a) checklist of species and their distribution; (b) game-kill statistics; (c) census of present and potential populations of game forms; (d) relative productiveness or carrying capacity for the various regions. Continuing survey, with 3- to 5-year summaries. To be published.

40. State-wide inventory of the surface water resources with emphasis on the following: (a) assembly of available information; (b) determination of work being done at present, including scope and future plans; (c) development of program to collect information on temperature and water quality readings for 150 stations throughout the State; (d) compilation of most up-to-date coverage and stream-system statistics. Continuing survey, with 3- to 5-year summaries. To be published.

41. Biological studies of various species of commercially important fish: life histories, migrations, growth rates, effect of fishing on spawning stocks, and related factors. Date of completion, 1949 or later. To be published.

42. Pond rearing of commercially important fish, involving production of fingerlings (chiefly shad) for some or all of the following: (a) release to the fishery, (b) racial studies, (c) migration studies, (d) food studies, (e) brood-sex ratios, (f) studies of the influence of environmental factors on the survival of fry and fingerlings, (g) development of effective tagging or marking methods, (h) study of the effect on the fishery of the release of pond-reared stocks. Experiments may be conducted to determine optimum fertilization conditions for maximum production of fingerlings. Date of completion, 1949 or later. To be published.

43. Life history, distribution, and possible lethal effects of *Nematopsis* sp. on oysters in Chesapeake Bay area: (a) histological study of the organism; (b) microscopic examination of fresh material to study distribution. Date of completion, 1949. To be published.

44. Report of observed damage to fish life by underwater explosions in Chesapeake Bay during late spring and summer of 1948. Date of completion, 1949. To be published.

45. Report of observed damage to fish life by underwater explosions in the Patuxent River during 1946, 1947, and 1948. Date of completion, 1949. To be published.

Board of Natural Resources. Department of State Forests and Parks
JOSEPH F. KAYLOR, Director, in charge of research

46. Forest survey, including game study in specified areas. In cooperation with the Department of Research and Education and the United States Forest Service. Date of completion, March 1, 1950. To be published.

47. Forest and resources survey of the Monocacy River Basin. In cooperation with the other departments of the Board of Natural Resources and the Interstate Commission on the Potomac River Basin. Date of completion, June 1, 1950. To be published and transmitted to the Monocacy River Association.

Chesapeake Bay Institute (The Johns Hopkins University)

48. Chemical and physical hydrography of Chesapeake Bay. Under direction of Donald W. Pritchard, Director. Continuing study. To be published and transmitted to the Department of Research and Education; Virginia Fisheries Laboratory; and Office of Naval Research, United States Navy Department.

Maryland State Planning Commission

49. Survey of the industrial uses, pollution control, and flood control of the Anacostia River. Under direction of Dr. John C. Geyer, Consultant. Date of completion undetermined. Special report to be transmitted to the Governor, Board of Natural Resources, State Department of Health, and Water Pollution Control Commission.

50. Integration of State water resources data and studies. Under direction of I. Alvin Pasarew, Director. Continuing study. Data to be issued periodically as special reports and transmitted to the Governor, Board of Natural Resources, State Department of Health, and Water Pollution Control Commission.

Upper Potomac River Flood Control Survey Commission

51. Flood control survey of Upper Potomac River. Under direction of John B. Funk, Chairman. Date of completion undetermined. Publication plans uncertain.

Water Pollution Control Commission

52. Survey of surface water conditions in the Potomac River and tributaries from its source to Fort Washington. Under direction of Paul W. McKee, Executive Secretary. Date of completion, January 1950. To be published in annual report.

EDUCATION

Board of Natural Resources. Department of Research and Education
DR. R. V. TRUITT, Director, in charge of research

53. Evaluation of current practices and organization of curriculum in regard to the teaching of resource use in the public schools. In cooperation with Dr. James E. Spitznas, Director of Instruction, State Department of Education. Date of completion undetermined. No publication plans.

54. Approach to seafood conservation through classroom instruction and practical application in a Dorchester County school. In cooperation with Theodore Boston, County Superintendent of Schools, and Dr. James E. Spitznas, Director of Instruction, State Department of Education. Date of completion undetermined. No publication plans.

55. An appraisal of high school marine conservation club work in Tidewater Maryland. In cooperation with Harry R. Hughes, Superintendent of Schools, Calvert County. Date of completion undetermined. No publication plans.

56. Preparation of pilot publications and visual aids for teachers and for school use at different levels. Date of completion undetermined. No publication plans.

57. Relationship between conservation materials or published matter and levels of instruction in the public schools of Maryland. Date of completion undetermined. No publication plans.

58. Evaluation of methods of presenting conservation subject matter in class and workshop at in-training and in-service teaching levels. Date of completion undetermined. No publication plans.

State Aviation Commission

59. Air education. Study to determine the feasibility and the extent to which air education may be included in teacher training and public school curricula. Under direction of R. A. Jamison, Director, in cooperation with the State Department of Education. Date of completion undetermined. No publication plans.

State Department of Education

√60. Proposed units for county and regional libraries in Maryland. Under direction of Dr. Harold Hoffsommer, Head, Department of Sociology, University of Maryland, in cooperation with Helen M. Clark, Director, Division of Library Extension. Date of completion, March 1949. Report to be published for intra-agency use.

61. Survey of school library facilities and needs, as a basis for planning a coordinated school and county library program. Under direction of Dr. Harold Hoffsommer, Head, Department of Sociology,

University of Maryland, in cooperation with Prince George's County and School Library Service Division, United States Office of Education. Date of completion undetermined. To be published.

62. Prince George's County Library Study: followup of a preliminary survey conducted early in 1947 to determine best locations of bookmobile stops. Bookmobile schedule was started in August 1947. Present study concerned with readers' interests and needs, neighborhood grouping, leaders, etc. Under direction of Dr. Harold Hoffsommer, Head, Department of Sociology, University of Maryland, in cooperation with Prince George's Library and Division of Library Extension. Date of completion undetermined. To be published.

63. Evaluation of Maryland's program of vocational rehabilitation. Under direction of Robert C. Thompson, Director, Division of Vocational Rehabilitation. Date of completion, fall 1949. To be published.

EMPLOYMENT AND ECONOMIC TRENDS

Department of Employment Security

64. *Job outlooks.* Descriptions of selected occupations in the Baltimore area with methods of entry, training requirements, forecast of local opportunities, and other pertinent information. Under direction of Sarah S. Blackmen, Labor Market Analyst. Continuing study. Special releases published from time to time as information becomes available.

65. *Maryland employment trends.* A narrative and statistical brief issued monthly covering changes in the employment picture in Maryland, based on reports received from manufacturing and nonmanufacturing industries throughout the State. Estimated average hourly earnings in manufacturing are available on request. Under direction of Sarah S. Blackmen, Labor Market Analyst, in cooperation with the United States Bureau of Labor Statistics. Continuing study. Published monthly.

66. *Business births and deaths in Maryland, 1947.* Analysis of births and deaths of Maryland business establishments, based on reports submitted to the Unemployment Compensation Division. Under direction of Sarah S. Blackmen, Labor Market Analyst. Date of completion undetermined. To be published.

67. Occupational breakdown of the unemployed in the Baltimore area, 1948. Comparison with occupational breakdown of the unemployed before the war and examination of changes in types of job seekers and reasons for unemployment in a period of high employment. Under direction of Sarah S. Blackmen, Labor Market Analyst. Date of completion undetermined. To be published.

68. Estimates of employment and unemployment trends in the Baltimore area. Under direction of Sarah S. Blackmen, Labor Market Analyst. Continuing study. Estimates available on request. No publication plans.

69. Analyses of labor market conditions in selected areas. Surveys of specified areas prepared on employers' requests for data on availability of workers, their general occupational experience, and entry rates current in the area. Under direction of Sarah S. Blackmen, Labor Market Analyst. Continuing study. No publication plans.

70. *Notes on industrial trends, Baltimore area.* Analysis of economic factors affecting employment and unemployment. Under direction of Sarah S. Blackmen, Labor Market Analyst. Published bimonthly for agency use. Single copies available only on request.

71. *Quarterly report of employment and wages in covered industry.* Includes employment and wages in establishments covered by the Maryland Unemployment Compensation Law, by major industry group and county, and also number of reporting units and average weekly wage for all employees. Under direction of Gladys N. McDermott, Labor Market Analyst. Continuing study. Published approximately three months after close of quarterly period and transmitted to Employment Security Board for distribution to local offices and selected agencies and individuals.

72. Summary of activities of Unemployment Compensation Division and Employment Service Division, including statistical data reflecting the year's operations. Under direction of Gladys N. McDermott, Labor Market Analyst. Date of completion, approximately December 1, 1949. To be published in *13th Annual Report of the Department of Employment Security*, which will be transmitted to Employment Security agencies of all states and a selected list of other agencies.

73. *Agricultural news letter.* A brief review of crop conditions, labor, and other factors relating to employment in farming and food processing. Under direction of DeWitt A. Tucker, Supervisor, Farm Labor Program. Continuing study. Published monthly during the harvesting and processing season.

Department of Labor and Industry

74. Survey of minimum and maximum ages in industry. Under direction of Margaret W. Kimble, Deputy Commissioner. Continuing study. Periodic releases prepared for public information. First release issued January 1949.

75. Average wages and hours for selected occupations in Baltimore City and counties of Maryland. Under direction of Margaret W. Kimble, Deputy Commissioner. Continuing study. Periodic releases prepared for public information. First release issued January 1949.

Maryland Department of Information

76. Maryland tourist trade. Under direction of John P. Trimmer, Director. Date of completion, November 30, 1949. To be transmitted to the Governor. Publication plans undetermined.

Maryland State Planning Commission
I. Alvin Pasarew, Director, in charge of research

77. Economic study of the Baltimore Metropolitan District. Date of completion, October 1949. To be published and transmitted to the Baltimore Metropolitan District Planning and Coordinating Committee.

78. Economic indices for Maryland: development of a series of indicators for measuring and describing the economic well-being of the State. Continuing study. Periodic releases through *NEWS LETTER* and special reports.

79. Comprehensive studies of the industrial and agricultural areas of the State—what their status is, where they are heading, and possibilities for new development. Continuing study. Interim reports to be published and transmitted to the Governor.

80. Industrial plants survey in the counties of Maryland. Compiled for Commission use. Summarized periodically in *NEWS LETTER* and distributed to local and State agencies, business groups, and interested individuals.

GOVERNMENT FINANCES

Department of Legislative Reference. State Fiscal Research Bureau

81. Local government finances in Maryland. Under direction of Dr. Elwyn A. Mauck, Director. Continuing study, completed in the early part of each calendar year. To be published and transmitted to the Governor and General Assembly.

Maryland Commission On Uniform Accounts

82. Establishment of uniform system of keeping accounts and reporting the fiscal transactions of the local units of government in Maryland. Under direction of James J. Lacy, Chairman. Continuing study. (Local units of government required to adopt a uniform system of keeping accounts as soon as practicable after January 1, 1950.) To be published and transmitted to the Governor.

Maryland State Planning Commission

83. Recommended methods for financing capital improvements. Under direction of I. Alvin Pasarew, Director. Date of completion, January 1951. To be published and transmitted to the Governor and General Assembly.

HEALTH AND PUBLIC WELFARE

Board of Mental Hygiene

84. An analysis of the free-choice diet of sixteen school children. Under direction of Dr. Charles S. Ward, Assistant Physician—Psychiatry, Rosewood State Training School. Date of completion undetermined. To be published.

85. The effect of massive doses of Vitamin C on gingivitis. Under direction of Dr. Charles S. Ward, Assistant Physician—Psychiatry, Rosewood State Training School. Date of completion undetermined. To be published.

86. A survey of the prevalence of subclinical deficiency findings in 69 children at Keating Cottage. Under direction of Dr. Charles S. Ward, Assistant Physician—Psychiatry, Rosewood State Training School. Date of completion undetermined. To be published.

87. A study of the constancy of I.Q.'s over a period of five years or more of 500 Rosewood children. Under direction of Dr. George C. Medairy, Clinical Director, Rosewood State Training School. Date of completion, September 1949. To be published.

88. A study of the adult moron population at Rosewood, and the determining factors relating to parole, such as: ratings on Stanford Binet and Wechsler-Bellevue scales, performance ability, school achievement, age, training, work experience, social adjustment, health, history, background, and total personality. Under direction of Dr. George C. Medairy, Clinical Director, Rosewood State Training School. Date of completion, September 1949. To be published.

89. A study of the correlation of scores on the Wechsler-Bellevue and Stanford Binet scales of 50 children of moron or borderline intelligence. Under direction of Dr. George C. Medairy, Clinical Director, Rosewood State Training School. Date of completion, September 1949. To be published.

90. Vitamin B complex determinations in psychotic patients. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1951. To be published.

91. Electro-shock therapy in psychotic patients with pulmonary tuberculosis. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1949. To be published.

92. How social work fits in with hospital administration. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1949. To be published.

93. Statistical study of patients paroled from Springfield State Hospital in family care. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1949. To be published.

94. Physical, psychological, and psychiatric studies before and after prefrontal lobotomy. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1951. To be published.

95. Endocrine studies in schizophrenics. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1951. To be published.

96. A ten-year follow-up study of schizophrenics admitted during 1938. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1950. To be published.

97. Case report of Pick's disease. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1949. To be published.

98. Classification and treatment of alcoholics in a State hospital. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1950. To be published.

99. One year's experience in a county mental hygiene clinic. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1949. To be published.

100. Behavior in response to hallucinatory experiences. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1950. To be published.

101. Follow-up studies on social adjustment of lobotomized patients. Under direction of Dr. M. Virginia Beyer, Clinical Director, Springfield State Hospital. Date of completion, 1950. To be published.

102. Short cuts by measuring functional loss in perception and emotional maladjustment in the hospital population. Comparison of Rorschach, T.A.T., etc. performance of: (1) psychotics and their parents; (2) fifty noninstitutionalized neurotics and fifty institutionalized psychotics; (3) psychotics and their nonpsychotic mates. Toward a concept of psychopathy from a study of Rorschach, T.A.T., etc. of serious delinquents and criminal psychotics. Under direction of Dr. Pearl Gardner, Clinical Psychologist, Spring Grove State Hospital. Date of completion, 1951. To be published in various psychological journals and transmitted possibly to the Neuropsychiatric Section of the Baltimore City Medical Society.

103. Dynamic application of occupational therapy and music in the treatment of regressed schizophrenics. Under direction of Dr. John Francis and Dr. John Arthur, Spring Grove State Hospital. Continuing study, reported to Staff of Hospital. To be transmitted probably to *Journal of Mental Hygiene* for publication.

104. Group therapy utilizing analytic interpretations with a group of chronic psychotics. Under direction of Dr. Percy Sutley, Spring

Grove State Hospital. Date of completion, 1950. Depending on results, to be published and/or presented to a neuropsychiatric society.

105. Prefrontal lobotomies of resident patients at Spring Grove State Hospital, including electroencephalograms, psychometrics, skin resistance tests, and condition reflexes. Under direction of Staff members of the Phipps Clinic, Neurosurgical Service of The Johns Hopkins Hospital, and Spring Grove State Hospital. Date of completion, 1950. Depending on results, to be published in professional journal. (Note: A preliminary report has already been submitted by the Neurological Service at a Staff meeting at The Johns Hopkins Hospital.)

106. Outpatient clinic. Participation of six Staff members of Spring Grove State Hospital, at the University of Maryland Mental Hygiene Clinic, under direction of the University of Maryland Psychiatric Staff. Date of completion, 1950. Publication plans dependent on results.

107. Pathological studies of brains of unusual cases who come to autopsy, deceased patients of Spring Grove State Hospital. Under direction of the Pathology Department, University of Maryland. Continuing study. To be published in neuropsychiatric and pathological journals and transmitted to medical societies.

108. Group therapy with regressed schizophrenics. Under direction of Dr. Barbara Betz, at the Spring Grove State Hospital. Date of completion undetermined. Publication plans uncertain.

Maryland State School for the Deaf

109. Survey of hearing loss among public school children of the State. Under direction of Ignatius Bjorlee, Superintendent, in cooperation with the State Department of Education. Continuing study. Reports submitted periodically to the State Department of Education and the State Department of Health.

State Board of Examiners of Nurses

110. Continuation of the study of the practical nurse situation in Maryland. Under direction of State Board of Examiners of Nurses, Dorothy F. McBride, R.N., President. Date of completion, May 1949. To be published.

State Department of Health

111. Determination of the basic elements essential to the development of an effective heart disease control program; intensive study in four counties. Under direction of Dr. Dean Roberts, Chief, Bureau of Medical Services. Date of completion, June 30, 1950. To be transmitted to the United States Public Health Service. Publication plans dependent on findings.

112. Committee work on State public health statistics and county small area statistics, e.g., residence allocation, service statistics, case registers, etc. Under direction of Dr. A. W. Hedrich, Chief, Bureau of Vital Statistics, and Chairman, Committee on State and Public Health and Small Area Statistics. Continuing study. To be transmitted to Council on Vital Records and Vital Statistics, Washington, D. C., for publication.

113. Compiling Maryland vital statistics rates from 1920 to date, with emphasis on adjustment of death rates for the changing age distribution of the population in the counties. Under direction of Dr. A. W. Hedrich, Chief, Bureau of Vital Statistics. Date of completion, late 1950. To be transmitted to local health authorities and state registrars. Publication plans undetermined.

114. An evaluation of the cytologic test for cancer. Under direction of Dr. W. Ross Cameron, Chief, Division of Cancer Control. Date of completion, June 30, 1950. To be transmitted to the United States Public Health Service. Publication plans dependent on findings.

115. An intensive field study of cancer, a cooperative cancer control project. Under direction of Dr. W. Ross Cameron, Chief, Division of Cancer Control, and the United States Public Health Service. Date of completion, June 30, 1950. Publication plans dependent on findings.

116. A study to determine why the fluorescence of secondhand cotton in ultraviolet light is different from that of new cotton, including the development of new and better methods of determining secondhand materials. Under direction of J. Davis Donovan, Chief, Division of Legal Administration. Date of completion undetermined. To be transmitted to *Bedding* and *Analytical Chemistry* for publication.

117. Organization of mental health clinics in the counties of Maryland: gathering of statistical information on the extent of minor mental illnesses not requiring institutional care that can profit by psychiatric service in the community. Under direction of Dr. Kenneth B. Jones, Chief, Division of Mental Hygiene. Date of completion July 1, 1953. To be published.

118. Continuation of the Caroline County community nursing service study for the purpose of determining the amount, kind, and cost of nursing service needed by a county health department. Under direction of Helen L. Fisk, Chief, Division of Public Health Nursing, in cooperation with the Caroline County Health Department and Bureau of Vital Statistics. Date of completion, November 1949. To be published. (Note: Progress report is planned for publication about April 1949.)

119. Mass chest X-ray survey. Project of X-raying the chests of large numbers of presumably healthy people with the use of photofluorographic 70mm X-ray equipment. Under direction of Dr.

Leon H. Hetherington, Chief, Division of Tuberculosis Services. Continuing study. To be transmitted to the United States Public Health Service, District No. 2. No publication plans.

120. Testing and demonstrating methods for correlation of dietary intakes with physical inspections and biochemical determinations of children in institutions. Under direction of Gretchen Jane Hartman, Consultant Dietitian, in cooperation with the United States Public Health Service. Date of completion, January 1950. To be published.

121. Venereal disease case-finding project: to determine whether or not the finding and bringing to treatment of cases of venereal disease, particularly syphilis, in the infective, communicable stages, can be improved through the use of lay investigators. Part of the study consists of the administration of rapid treatment with penicillin, on a five-day outpatient schedule, for cases of syphilis and gonorrhea. Under direction of Dr. C. E. Waller, Deputy State Health Officer, in charge of the Office of Venereal Disease Control. Date of completion, June 30, 1949. To be transmitted to the United States Public Health Service. Publication plans undetermined.

State Department of Public Welfare

122. Analysis of persons sentenced to State penal institutions during fiscal year 1947-1948 who were previously in State training schools. Under direction of Dr. E. Preston Sharp, Chief of the Division of Training Schools; conducted by Mary E. Hopkins, Field Supervisor. Date of completion, April 30, 1949. To be published and transmitted to the Superintendents and Boards of Managers of the respective training schools.

LEGISLATION AND LAW ENFORCEMENT

Board of Natural Resources

123. Licenses, special taxes, and fees which apply to the natural resources. Under direction of the Board of Natural Resources, William H. Bayliff, Executive Secretary. Date of completion, July 1, 1949. To be published as part of the annual report of the Board and transmitted to the Governor, Legislative Council, and Department of Legislative Reference.

Commission To Study and Revise the Workmen's Compensation Laws

124. Study and revision of the workmen's compensation laws of Maryland. Under direction of Emanuel Gorfine, Chairman. Date of completion undetermined. To be published and transmitted to the Governor and Legislative Council.

Commission To Study the General Corporation Laws

125. A study of the general corporation laws of Maryland and recommendations for amendment. Under direction of William C. Walsh. Date of completion, December 1, 1949. To be published.

State Veterinary Medical Board

126. Revision of act regulating the practice of veterinary medicine in Maryland. Under direction of the Maryland State Veterinary Medical Association. Date of completion, February 28, 1949. For transmittal to the General Assembly. No publication plans.

PLANNING AND PUBLIC WORKS

Department of Public Improvements

127. Study of space utilization survey and capital improvement needs of mental institutions. Under direction of John B. Funk, Chief Engineer of Maryland. Date of completion, March 1, 1949. To be published and transmitted to the Governor.

Maryland State Planning Commission
I. Alvin Pasarew, Director, in charge of research

128. Long-term capital improvement program, 1951 biennial revision. Thomas F. Hubbard, Consultant. Date of completion, January 1951. To be published and transmitted to the Governor and General Assembly.

129. Site plans for State institutions. Continuing study, in conjunction with the long-term capital improvement program. To be published in parts and transmitted to the Governor and General Assembly.

130. A plan for the development of Anne Arundel County. In cooperation with H. Cleveland Logue, County Budget Supervisor. Date of completion, January 10, 1949. To be published and transmitted to the Board of County Commissioners of Anne Arundel County.

131. Development of a program for coordinating the services and facilities of the Baltimore Metropolitan District. Continuing study. Special reports to be transmitted to the Baltimore Metropolitan District Planning and Coordinating Committee.

132. Census tract manual for the Baltimore Metropolitan District. Dr. W. Thurber Fales, Consultant. Date of completion, 1951. To be published and transmitted to the Governor, Mayor of Baltimore City, and Boards of County Commissioners of Anne Arundel, Baltimore, and Howard counties.

133. Growth and development of population in the counties of Maryland. Date of completion, undetermined. To be published in parts and transmitted to the Governor.

134. Master plan of airports, including general land-use map, rail transportation, air transportation, feeder lines, marketing areas, existing airports, and projected airports for the State of Maryland. In cooperation with R. A. Jamison, Director, State Aviation Commission. Date of completion undetermined. To be published and transmitted to the Governor.

135. *News Letter.* Monthly publication of important news, reviews, and economic analyses of local and State-wide planning significance. Distributed twelve times a year to State and local agencies and officials, civic groups, and interested citizens in the State.

State Aviation Commission
R. A. Jamison, Director, in charge of research

136. Air marking. State-wide study to determine the number and location of air markers, together with methods of financing the markers. Date of completion, September 1, 1949. For transmittal to the Maryland State Planning Commission. No publication plans.

137. Airport master plan and route pattern study. Includes an analysis of existing airport facilities and feeder routes, together with a forecast to determine anticipated development of both. In cooperation with the Maryland State Planning Commission and the Civil Aeronautics Administration. Date of completion, August 15, 1949. To be published and transmitted to the Governor and all interested State agencies.

RECREATION

Board of Natural Resources. Department of State Forests and Parks
Joseph F. Kaylor, Director, in charge of research

138. Master plan for park and recreation development of Sandy Point State Park. In cooperation with the Maryland State Planning Commission. Date of completion, August 1, 1949. To be published.

139. Study of Maryland's park and recreation needs; an intensive survey to supplement the State Planning Commission's report of 1940. In cooperation with the Maryland State Planning Commission. Date of completion, December 31, 1949. To be published.

Maryland State Planning Commission
I. Alvin Pasarew, Director, in charge of research

140. Maryland's bayside park, its development and operation. In cooperation with Joseph F. Kaylor, Director, Department of State Forests and Parks. Date of completion, January 1950. To be published and transmitted to the Governor and General Assembly.

141. Long-range plan for development of parks and recreational facilities in Maryland. In cooperation with Joseph F. Kaylor, Director, Department of State Forests and Parks. Date of completion undetermined. To be published and transmitted to the Governor and General Assembly.

142. Study of recreational needs for Baltimore Metropolitan District. Date of completion undetermined. To be published and trans-

mitted to the Governor, Mayor of Baltimore City, and Boards of County Commissioners of Anne Arundel, Baltimore, and Howard counties.

TRANSPORTATION AND TRAFFIC CONTROL

Maryland Traffic Safety Commission

143. Survey of traffic accident causes and location: (1) monthly comparisons of accident rates throughout the State, showing time and route on which accidents occur, by city and county; (2) ways and means of controlling and reducing accident records. Under direction of William H. Bishop, Jr., Executive Director. Date of completion undetermined. For transmittal to the General Assembly. No publication plans.

State Aviation Commission

144. Aviation safety enforcement program. Series of seminars conducted to determine the aviation safety problems and how to combat them. Under direction of R. A. Jamison, Director, in cooperation with the Department of Maryland State Police. Date of completion, February 2, 1949. Special report to the Governor. No publication plans.

State Roads Commission

145. Cumberland origin and destination traffic study. Under direction of the Traffic Division. Date of completion, February 1, 1950. To be published and transmitted to the City of Cumberland and the Public Roads Administration.

PART II. STATE RESEARCH ACTIVITIES (ACADEMIC INSTITUTIONS)

MORGAN STATE COLLEGE

Department of Biology

146. Pneumatization of chick long bones under various controlled conditions; effect of temperature upon growth and structure of the air sacs. Under direction of A. C. Warrington, Associate Professor. Date of completion undetermined. Publication plans uncertain.

147. Transmission of viruses in algae plants; effect of plant viruses on the production of certain food nutrients. Under direction of Dr. John W. King, Professor. Date of completion, August 1949. To be published.

148. Science teachers' objectives and attitudes toward using community resources in teaching: a study of fifteen Maryland Negro secondary schools. Under direction of Dr. Thomas P. Fraser, Associate Professor. Date of conpletion, December 17, 1948. Publication plans under consideration. To be made available through Morgan State College Library and through speeches to Baltimore City and county science teachers.

149. Ovogenesis in *Necturus maculosus*. Under direction of Norvell W. Hunter, Assistant Professor. Date of completion, 1950. To be published in professional journal.

Department of Chemistry

150. Condensation products of chlorophenols with formaldehyde. Under direction of Dr. Cyril F. Atkins, Professor. Date of completion, February 1950. To be published.

151. Preparation of p-methoxybenzyl mesityl glyoxal, including a further study of the properties and side reactions during the preparation of this alpha diketone. Under direction of Harold Delaney, Assistant Professor. Date of completion, September 1949. To be published.

152. Guanidine carbonate as a possible primary standard for acids. Under direction of Dr. George H. Spaulding, Professor and Head of Department. Date of completion, June 1949. To be published.

Department of Economics

153. Survey of Negro business in Baltimore, Maryland: a study of the number and types of business organizations owned and operated by Negroes in the City. Under direction of Dr. Winfred O. Bryson, Jr., Professor and Head of Department, in cooperation with the

Commerce Club. Date of completion, August 1, 1949. To be published in professional journal.

154. Study of the personnel procedures followed in a selected group of large Negro-operated businesses. Under direction of Isador B. Oglesby, Assistant Professor, and V. Wilson Henderson, Instructor in Economics, Prairie View State College, Texas. Date of completion, September 1950. To be published.

Department of Education

155. Study of selected techniques of observation and student appraisal as a means of improving instruction on the college level. Under direction of Dr. Virgil A. Clift, Professor and Head of Department. Date of completion, spring 1950. To be published in professional journal.

156. Study of the relationships between results revealed by standardized test scores, i.e., collegiate academic, personality, and reading ability, and demonstrated success during period of student teaching. Under direction of Dr. Virgil A. Clift, Professor and Head of Department. Date of completion, summer 1949. To be published in professional journal.

157. Study of major problems confronting the beginning secondary school teacher. Under direction of Dr. Virgil A. Clift, Professor and Head of Department. Date of completion, spring 1950. Publication plans uncertain.

158. Role of Morgan State College in adult education: (1) analysis of sociological data to determine nature of problems that can be met through a program of adult education sponsored by the College; (2) implications for administration philosophy, methods, and materials. Under direction of Dr. James C. Finney, Associate Professor. Date of completion, July 1949. For transmittal to the President of Morgan State College. No publication plans.

Department of English

159. The Negro author's use of propaganda in imaginative literature. Under direction of Dr. Nick Aaron Ford, Professor and Head of Department. Date of completion, January 1950. To be published in professional journal.

160. William Stanley Braithwaite: poet, critic. Under direction of Robert A. Smith, Assistant Professor. Date of completion, March 15, 1949. To be published in professional journal.

161. Counter Cullen: an essay in criticism. Under direction of Robert A. Smith, Assistant Professor. Date of completion undetermined. To be published in professional journal.

162. Themes and characters in the short stories of Charles Chesnutt. Under direction of Robert A. Smith, Assistant Professor of English. Date of completion, March 15, 1949. To be published in professional journal.

163. Thomas Chatterton as a satirist. Under direction of Robert A. Smith, Assistant Professor. Date of completion, June 15, 1949. To be published in professional journal.

164. Whittier's contemporary reputation: an investigation of Whittier criticism and comment, 1935-1948. Under direction of Dr. J. Welfred Holmes, Professor. Date of completion, May 1949. To be published in professional journal.

165. Patterns of interest at Morgan State College: a study of the interest patterns of students at the College, covering a two-year period. Under direction of Maurice A. Lee, Associate Professor. Date of completion uncertain. To be published in professional journal.

166. Punctuation for meaning: recording and film strip. Under direction of Maurice A. Lee, Associate Professor, and Juanita G. Starke, Substitute. Project completed. To be published and transmitted to professional groups.

167. Construction, use, and evaluation of audio-visual aids in the teaching of basic English language skills: effect of multisensory learning on rapidity and retention of learning, in comparison with textbook, drill-exercise procedures. Under direction of Maurice A. Lee, Associate Professor. Date of completion, February 1, 1950. To be published.

168. A "blueprint" for an English communications program; based on a study of Morgan State College students' needs and interests observed during experimental course in language instruction conducted for two semesters at the freshmen level. Under direction of Maurice A. Lee, Associate Professor. Date of completion, April 1, 1949. To be published, in whole or in parts, in professional journals.

Department of History and Political Science

169. The teaching of Negro history in Negro colleges. Under direction of Dr. Edward M. Coleman, Professor and Head of Department. Date of completion, December 1948. To be published.

170. Contemporary Negro crusaders for civil liberties. Under direction of Dr. Robert L. Gill, Professor. Date of completion, January 1950. To be published.

171. A history of the Omega Psi Phi Fraternity. Under direction of Dr. Robert L. Gill, Professor. Date of completion, December 1951. For transmittal to Omega Psi Phi Fraternity, Inc. To be published.

172. William Johnson Trent II—a pioneer in public service. Under direction of Dr. Robert L. Gill, Professor. Date of completion, April 30, 1949. To be transmitted to *Journal of Higher Education* for publication.

173. The political doctrines of Dr. Sun Yat-Sen as interpreted by Chiang Kai-Shek and the Chinese communist. Under direction of Dr.

Robert L. Gill, Professor. Date of completion, July 1949. To be transmitted to *Far Eastern Survey* for publication.

174. The Negro soldier of Maryland in retrospect and prospect. Under direction of Dr. Robert L. Gill, Professor. Date of completion, October 30, 1949. For transmittal to Maryland Historical Society. To be published.

175. The archivist self-list of reference books; a suggested list of references to facilitate reference work in the small archives establishment. Under direction of Dr. Roland C. McConnell, Professor. Date of completion, February 1, 1949. For transmittal to the Society of American Archivists. To be published in *The American Archivist.*

176. The decline of liberalism in the twentieth century. Under direction of Dr. Alexander J. Walker, Professor. Date of completion, September 1949. To be published.

177. The Bosomworth family and anglo-indian relations in colonial Georgia, 1745-1759. Under direction of Isaiah A. Woodward, Assistant Professor. Study completed. Published in *Morgan State College Bulletin*, Vol. XIV, No. 10, December 1948.

178. The administration of Arthur I. Boreman in the State of West Virginia, 1863-1869, including a study of the social, economic, and political problems of West Virginia of that period. Under direction of Isaiah A. Woodward, Assistant Professor. Date of completion, June 5, 1950. For transmittal to Catholic University of America, Washington, D. C. To be published.

Department of Mathematics

179. Nonlinear difference equations containing a parameter. Under direction of Dr. Clarence F. Stephens, Professor and Head of Department. Study completed. To be published in *Bulletin of the American Mathematical Society.*

180. Nonlinear q-difference equations. Under direction of Dr. Clarence F. Stephens, Professor and Head of Department. Date of completion, August 1949. To be transmitted to *American Journal of Mathematics* for publication.

Department of Music

181. Voicing trends in modern orchestration. Under direction of R. Hayes Strider, Instructor. Date of completion, May 1, 1949. To be published.

182. Theory for bandsmen: a study to develop instrumentalists in all phases of music theory. Under direction of R. Hayes Strider, Instructor. Date of completion, May 15, 1949. To be published.

183. Survey of music training in the county schools of Maryland: musical offerings, teacher load, materials, etc. Under direction of Dorothy Hunter Banks, Assistant Professor. Date of completion, June 1949. To be published.

Department of Philosophy and Psychology

184. Predictability of final course grades for classes in educational measurements from initial and final administrations of a comprehensive examination and from other nonstandarized measures. Under direction of Dr. Roger K. Williams, Professor. Date of completion, summer 1949. To be published in professional journal.

185. Determination of "relative statistical zero" as a basis for improving the evaluation of individual achievement. Under direction of Dr. Roger K. Williams, Professor. Date of completion, summer 1949. To be published in professional journal.

186. Philosophical foundations of the modern welfare state. Under direction of Dr. Marc Moreland, Substitute Professor. Date of completion, summer 1949. To be transmitted to the University of Toronto Press for publication. Chapters on Spinoza, Locke, and Milton to appear in the spring and summer issues of *Phylon*, published by Atlanta University, Georgia.

Department of Romance Languages

187. French contributions to American civilization. Under direction of Dr. Frederick H. Dedmond, Professor and Head of Department. Date of completion, 1949. To be published in book form.

188. The Spanish Club and its importance in the study of Spanish. Under direction of Dr. Frederick H. Dedmond, Professor and Head of Department. Date of completion, 1949. To be published.

189. Foreign language requirements for advanced degrees in English. Under direction of Dr. Frederick H. Dedmond, Professor and Head of Department. Date of completion, 1949. To be published.

Department of Sociology

190. Employment status of Negroes in the Baltimore metropolitan area. Under direction of Dr. Clifton R. Jones, Professor. Date of completion, June 1, 1949. For transmittal to the Baltimore Urban League. To be published.

191. Socio-economic status of Negro high school students in the State of Maryland. Under direction of Dr. Clifton R. Jones, Professor. Date of completion, May 1, 1949. To be published.

192. Migrant Negro youth: a study in culture conflict and accommodation, with special reference to parent-child relationships. Under direction of Dr. Earl R. Moses, Professor and Head of Department. Study completed. To be published in professional journal.

193. Differentials in crime rates between Negroes and whites, based on comparisons of four socio-economically equated areas. Followup of earlier study published in *American Sociological Review*, Vol. XII, No. 4, August 1947. Under direction of Dr. Earl R. Moses, Professor and Head of Department. Date of completion, fall 1949.

ST. MARY'S SEMINARY—JUNIOR COLLEGE

194. Occupational study of graduates of public high schools in St. Mary's, Charles, and Calvert counties. Under direction of May Russell, President. Date of completion, January 1950. Results to be used by the Faculty Curriculum Committee at St. Mary's Seminary—Junior College. Report to be transmitted to principals of high schools involved. No publication plans.

APPENDIX A

STUDIES REQUESTED BY THE 1949 SESSION OF THE GENERAL ASSEMBLY[1]

Joint Resolution No. 5. Requests the Governor to appoint a commission to study the general insolvency laws.

Joint Resolution No. 11. Requests the Governor to appoint a commission to study the laws requiring licenses to engage in trade or occupation.

Joint Resolution No. 13. Requests the Governor to appoint a special commission to study the law imposing a tax on gross receipts of certain corporations.

Joint Resolution No. 14. Requests the Governor to appoint a commission to study laws imposing various taxes and licenses.

Joint Resolution No. 16. Requests the Governor to appoint a commission to study poisonous fumes discharged by industrial plants.

Joint Resolution No. 17. Directs the Game and Inland Fish Commission to investigate the causes of the muskrat shortage.

Joint Resolution No. 25. Requests the Governor to appoint a commission to study apprentice training in public schools.

Joint Resolution No. 26. Requests the Governor to appoint a commission to study advisability of urging the United States to take initiative in strengthening the United Nations organization.

House Resolution. Requests the Legislative Council to study the subject of unclaimed deposits and other funds held inactive for over 20 years in banking institutions.

House Resolution. Requests the Governor to appoint a committee to consider the possibilities for improving and standardizing the laws covering the recordation of chattel mortgages, bills of sale, etc.

House Resolution. Requests the Governor to appoint a commission to investigate the problems raised by the distribution of foreign fluid milk in the markets of the State.

House Resolution. Requests the Employment Security Board and Advisory Council to study thoroughly the provisions of House Bill No. 681 (not passed) and other comparable legislation to provide for cash sickness insurance.

House Resolution. Requests the Legislative Council to make a thorough study of all phases of the problem of securing county boards of education, their selection, and personnel.

House Resolution. Requests the Governor to appoint a commission to study thoroughly the grounds for divorce.

House Resolution. Requests the Legislative Council to have its research division make a study of the rules of procedure in the several states.

[1]Information supplied by Department of Legislative Reference.

House Resolution. Requests the Governor to appoint a commission to study the need for more effective legislation covering the weights and measures used in the State.

House Resolution. Requests the Governor to appoint a commission to study and revise the insurance laws of the State.

Senate Resolution. Requests the Legislative Council to consider the question of requiring that a certain percentage of investments of life insurance companies be made in Maryland securities.

Senate Resolution. Requests the trustees of the new State Police Retirement System to study the feasibility of additional benefits.

Senate Resolution. Requests the Legislative Council to study the Senate Rules with a view to their general revision and particularly as to the striking out all after the words "A Bill."

Senate Resolution. Requests the Governor to appoint a commission to study the whole field of higher education for Negroes and especially the relationship between Morgan College and Princess Anne.

Senate Resolution. Requests the Legislative Council to study the proposal to permit certain State employees to become members of the Retirement System with credit for prior service.

House Resolution. Requests the Legislative Council to make a study as to the sale and distribution to minors of so-called "comic books" and other similar publications.

House Resolution. Requests the Legislative Council and the Chief Engineer of the State to collaborate in studying the possibilities and cost of installation of electric voting in the House of Delegates.

Senate Resolution. Requests the Legislative Council to study the general subject of absentee voting in the State.

Senate Resolution. Requests the trustees of the State Teachers' Retirement System and the State Empolyees' Retirement System to study the proposals to increase payments to retired teachers who are receiving retirement allowances.

House Resolution. Requests the Director of the State Fiscal Research Bureau to make a study of the operations, administration, personnel, and physical plant of the State Department of Health.

House Resolution. Requests the Governor to appoint a commission to study the trade-mark laws of Maryland.

House Resolution. Requests the Governor to appoint a commission to study the trends in legislation which in any way involve the element of gambling and to make recommendations as to what the future policy of the State should be in regard thereto.

Chapter 193. Appropriates funds for State's participation in a survey of the Port of Baltimore by the Baltimore Association of Commerce.

APPENDIX B

LIST OF STATE AGENCIES REPORTING

The following State agencies indicated research projects underway:[1]

1. Board of Mental Hygiene
   - Rosewood State Training School (6)
   - Springfield State Hospital (12)
   - Spring Grove State Hospital (7)
2. Board of Natural Resources (1)
   - Department of Geology, Mines and Water Resources (10)
   - Department of Research and Education (37)
   - Department of State Forests and Parks (4)
3. Chesapeake Bay Institute (The Johns Hopkins University) (1)
4. Commission to Study and Revise the Workmen's Compensation Laws (1)
5. Commission to Study the General Corporation Laws of Maryland (1)
6. Department of Employment Security (10)
7. Department of Labor and Industry (2)
8. Department of Legislative Reference
   - State Fiscal Research Bureau (1)
9. Department of Public Improvements (1)
10. Land Office of Maryland (1)
11. Maryland Commission on Uniform Accounts (1)
12. Maryland Department of Information (1)
13. Maryland Historical Society
    - Maryland War Records Division (1)
14. Maryland State Apple Commission (2)
15. Maryland State Planning Commission (18)
16. Maryland State School for the Deaf (1)
17. Maryland Traffic Safety Commission (1)
18. Morgan State College (48)
19. St. Mary's Seminary—Junior College (1)
20. State Aviation Commission (4)
21. State Board of Examiners of Nurses (1)
22. State Department of Education (4)
23. State Department of Health (11)
24. State Department of Public Welfare (1)
25. State Roads Commission (1)
26. State Veterinary Medical Board (1)
27. Upper Potomac River Flood Control Survey Commission (1)
28. Water Pollution Control Commission (1)

The following State agencies indicated no research projects:[2]

1. Administrator of Loan Laws
2. Atlantic States Marine Fisheries Commission
3. Bi-State Chesapeake-Potomac Study Commission
4. Board of Barber Examiners

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[1] Number of separate projects given in parentheses.
[2] Excluding nonreporting agencies.

5. Board of Boiler Rules
6. Board of Chiropody Examiners
7. Board of Correction
8. Board of Electrical Examiners and Supervisors
9. Board of Examiners in Optometry
10. Board of Examiners of Public Accountants
11. Board of Medical Examiners
12. Board of Medical Examiners—Homeopathic
13. Board of Osteopathic Examiners
14. Board of Public Works
15. Board of Registration for Professional Engineers and Land Surveyors
16. Bureau of Revenue Estimates
17. Commission on Interstate Cooperation
18. Commissioners for the Promotion of Uniformity of Legislation in the United States
19. Commissioners of Practical Plumbing
20. Comptroller of the Treasury
21. Department of Budget and Procurement
22. Department of Maryland State Police
23. Department of Motor Vehicles
24. Department of State Employment and Registration
25. Division of Parole and Probation
26. Hall of Records Commission
27. Maryland Board of Pharmacy
28. Maryland State Board of Motion Picture Censors
29. Maryland State Fair Board
30. Maryland State Library
31. Maryland Veterans Commission
32. Maryland Veterans' Housing Commission
33. Medical Board for Occupational Diseases
34. Military Department
35. Miners Hospital
36. Public Service Commission
37. Real Estate Commission
38. Secretary of State
39. State Accident Fund
40. State Athletic Commission
41. State Auditor
42. State Bank Commissioner
43. State Board of Chiropractic Examiners
44. State Board of Dental Examiners
45. State Board of Examiners and Registration of Architects
46. State Board of Examining Engineers
47. State Board of Funeral Directors and Embalmers
48. State Board of Hairdressers and Beauty Culturists
49. State Board of Law Examiners
50. State Board of Physical Therapy Examiners
51. State Employees Standard Salary Board
52. State Fuel Coordinator
53. State Industrial Accident Commission
54. State Law Department

55. State Tax Commission
56. State Teachers College, Bowie
57. State Teachers College, Frostburg
58. State Teachers College, Salisbury
59. State Teachers College, Towson
60. State Tobacco Authority
61. State Tobacco Warehouse
62. State Treasurer
63. Superintendent of Public Buildings and Grounds
64. Washington Suburban Sanitary Commission

APPENDIX C

LAWS OF MARYLAND

ACTS OF 1947

CHAPTER 596

AN ACT to add a new section to Article 88C of the Annotated Code of Maryland (1939 Edition), title "State Planning Commission", said new section to be known as Section 5A and to follow immediately after Section 5 of said Article, relating to certain research work being conducted or undertaken by the several State departments, officials and agencies.

SECTION 1. *Be it enacted by the General Assembly of Maryland,* That a new section be and it is hereby added to Article 88C of the Annotated Code of Maryland (1939 Edition), title "State Planning Commission", said new section to be known as Section 5A, to follow immediately after Section 5 of said Article, and to read as follows:

5A. The State Planning Commission is hereby authorized, for the information of the several departments and officials of the State and the public, to compile and make available, at such time or times as it may deem desirable, a list or inventory of current research being conducted by the several State departments, institutions, officials or agencies on questions or subjects affecting or relating to the work or activities of any department or agency of the State. It shall be the duty of every State department, institution, official or agency which is conducting, or under whose supervision or control is being conducted, any research work as above prescribed, to report to the State Planning Commission as to such research work, the nature and purpose of the study and anticipated date of its completion and probable publication. Provided, however, that whenever such department, institution, official or agency is conducting research on matters which, if disclosed or made public, would be against public interest or tend to impede or obstruct such research, then, with the permission of the State Planning Commission the department, institution, official or agency may be excused from reporting on such matters. In the event of dispute between the State Planning Commission and any department, institution, official or agency as to whether or not any subject of research should be so reported, the matter shall be referred to the Governor whose decision shall be final.

SEC. 2. *And be it further enacted,* That this Act shall take effect June 1, 1947.

Approved April 25, 1947.

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